

Bee T



Ligation

1. Check the concentration of DNA fragments and vector which are going to be ligated.
2. Calculate the amount of partA/partB and vector added, based on the fragment length.
Note that a ligation using a molar ratio of 1:3-1:5 vector to inserts.
3. Add DNA/buffer and ligase together in the EP tube.

20.0μL reaction system

A μL part A

B μL part B

V μL vector

2 μL 10x T4 buffer

1.25 μL ddH₂O

1 μL T4 ligase

-----**20.0 μL** Total

4. Mix the reaction by pipetting up and down Gently and microfuge briefly.
5. Incubate at 16°C 20min (high concentration T4 DNA Ligase can be used in a 10 minute ligation)
6. Chill on ice and transform 10-20 μl of the reaction into 50 μl competent cells.

